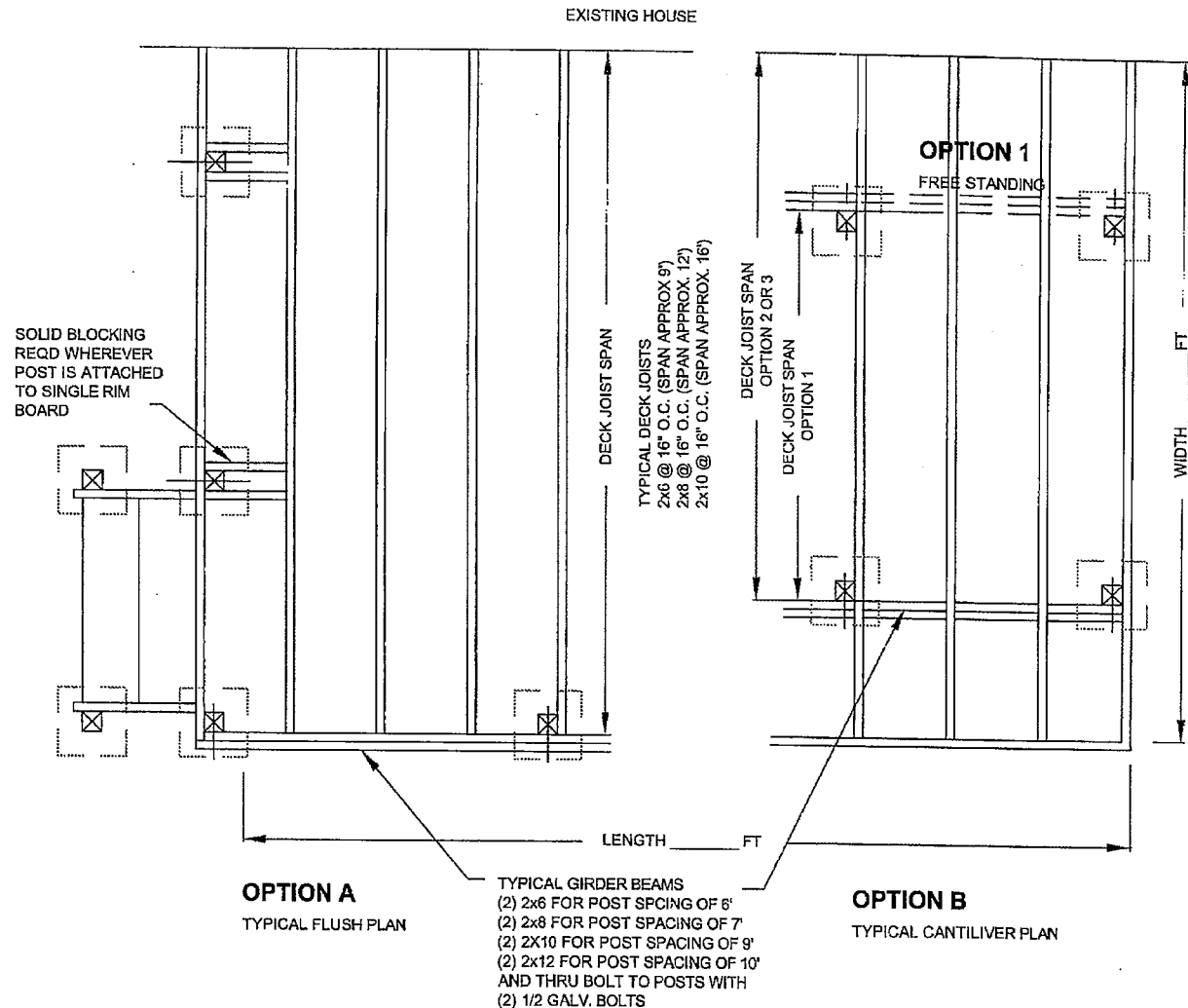


DECK DESIGN

THESE DESIGN SHEETS ARE PROVIDED FOR A SIMPLE, SINGLE LEVEL HOUSE DECK. IF A HOT TUB OR OTHER SPECIAL USE IS INTENDED, SEE A DESIGN PROFESSIONAL. THERE ARE MANY EXCELLENT REFERENCE BOOKS AVAILABLE FROM HARDWARE STORES, LIBRARY OR THE INTERNET TO PROVIDE CUSTOM DESIGNS AND CONSTRUCTION METHODS.

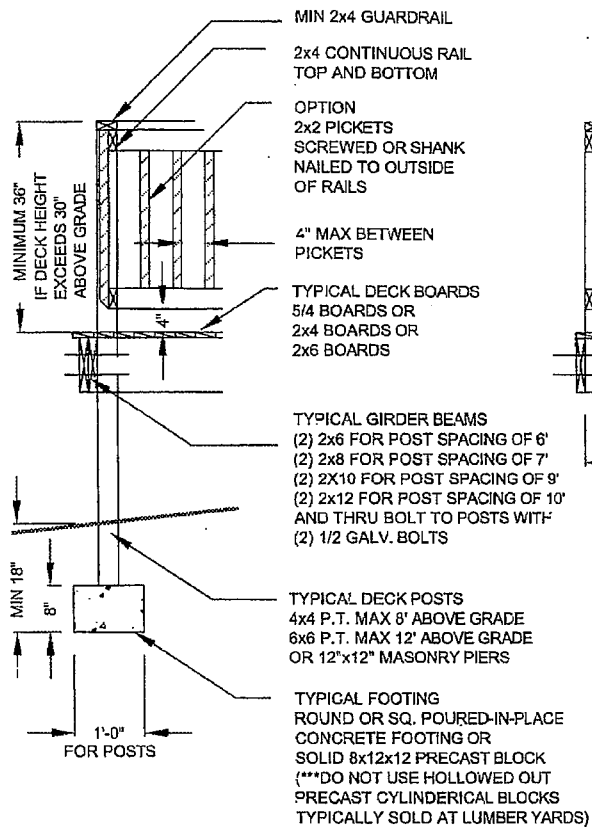
HOW TO DESIGN A DECK:

1. SKETCH YOUR **PLAN** (GRAPH PAPER MAY HELP). SHOW THE RELATIONSHIP OF YOUR EXISTING HOUSE TO THE NEW DECK. DRAW STAIRS. PRINT OVERALL DIMENSIONS ON YOUR **PLAN**. SHOW THE APPROXIMATE LOCATION OF YOUR POSTS. IF POSTS ARE MORE THAN 12' APART, ADD INTERMEDIATE POST(S) TO KEEP THE SPAN(S) SHORTER.
2. FOR YOUR CONVENIENCE, WE HAVE PROVIDED TYPICAL **CROSS-SECTION** SKETCHES ON SHEET 2. USE THEM IF YOU PREFER, OR DESIGN YOUR OWN SKETCHES.
4. IF YOU CHOSE THE SKETCHES PROVIDED, SELECT THE **CROSS-SECTION** VIEW THAT MATCHES YOUR PLAN. THERE ARE TWO DESIGN OPTIONS (A OR B) FOR THE END OF THE DECK FARTEST AWAY FROM THE HOUSE, AND THREE DESIGN OPTIONS (1,2 OR 3) FOR THE END OF THE DECK CLOSEST TO THE HOUSE.
4. WE HAVE PROVIDED YOU WITH TYPICAL WOOD MEMBER SIZES FOR YOUR REFERENCE.
5. PREPARE A **PLAT PLAN** (PROPERTY PLAN) SHOWING THE LOCATION OF YOUR HOUSE, THE DECK AND OTHER BUILDINGS IN RELATIONSHIP TO THE PROPERTY LINES. PROVIDE THE APPROXIMATE DIMENSIONS OF THE DECK TO THE PROPERTY LINES. (YOU PROBABLY RECEIVED A PLAT PLAN WHEN YOU PURCHASED YOUR HOUSE; USE IT AND DRAW ON THE DECK.)
6. SUBMIT 1 COPY OF YOUR **PLAT PLAN**, AND 2 COPIES OF THE **DECK PLAN** AND **CROSS-SECTION DETAILS**.
7. PAY THE PERMIT FEE (CURRENTLY ABOUT \$81.)
8. IF YOU ARE BUILDING THE DECK YOURSELF, YOU WILL NEED THE FOLLOWING INSPECTIONS:
 - A. FOOTING HOLE INSPECTION PRIOR TO CONCRETE POUR.
 - B. FINAL INSPECTION.

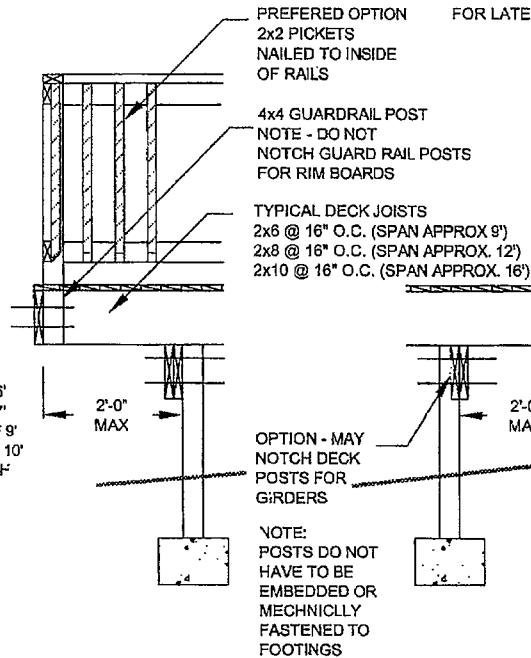


OPTION "A"

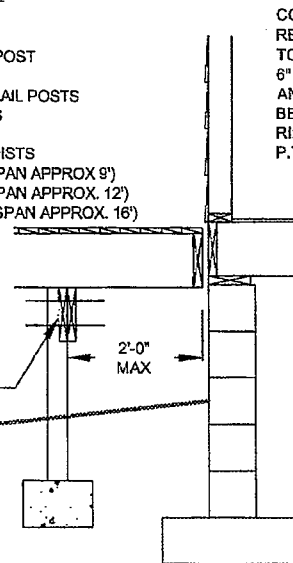
FLUSH POST DESIGN

**OPTION "B"**

CANTILEVER DESIGN

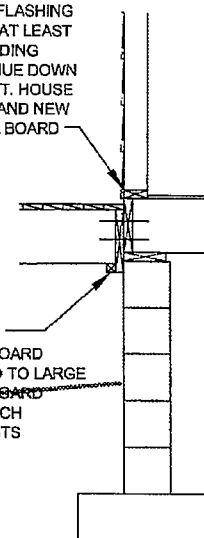
**OPTION "1"****RECOMMENDED!!!**

FREE STANDING
(NOT ATTACHED TO HOUSE)
NOTE: MUST BE BRACED
FOR LATERAL STABILITY

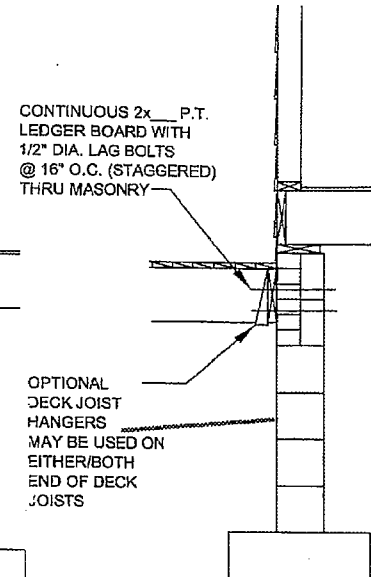
**OPTION "2"**

ATTCH TO HOUSE BAND

INSTALL THE LEDGER
SO THAT THE TOP OF
THE DECKING IS
1" BELOW THE INTERIOR
FLOOR HEIGHT.

**OPTION "3"**

ATTCH TO FOUNDATION WALL



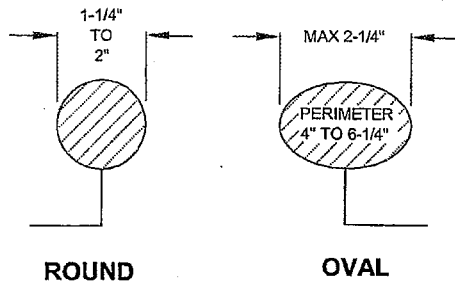
NOTE - FRAMING SHALL BE BASED ON 40# PER SQ. FT. LIVE LOAD, AND 10# PER SQ. FT. DEAD LOAD. DO NOT SET HOT TUB ON THIS DECK WITHOUT FURTHER SUPPORTS AS REQUIRED BY A DESIGN PROFESSIONAL.

SPECIFY TWO ENDS OF DECK - (A OR B) AND (1,2 OR 3) AND STRUCTURAL ELEMENTS

___ OPTION A: FLUSH POSTS DESIGN	DECK JOISTS	2x ___ @ ___" O.C.
OR ___ OPTION B: CANTILEVER DESIGN	GIRDER BEAMS	(___) 2x ___
___ OPTION 1: FREE STANDING DESIGN	P.T. POSTS	___ x ___
OR ___ OPTION 2: ATTACH TO HOUSE BAND	DECK BOARDS	___ x ___
OR ___ OPTION 3: ATTACH TO FOUNDATION WALL		

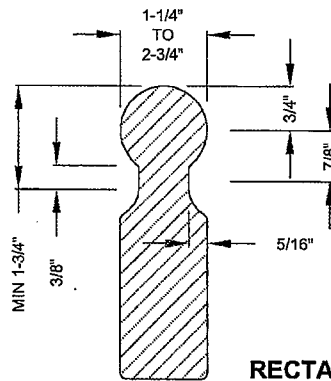
***WARNING ON FASTENERS:
CHECK WITH YOUR MATERIAL
SUPPLIER FOR FASTENERS
COMPATIBLE WITH THE
PRESSURE TREATED
LUMBER
(CURRENTLY "ACQ P.T.")
LUMBER REQUIRES TRIPPLE
GALV OR STAINLESS STEEL
BOLTS, SCREWS, NAILS AND
HANGERS)

TYPICAL STAIR DETAILS



TYPE 1 HANDRAIL PROFILE

HANDRAILS WITH A CIRCULAR CROSS-SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1-1/4" AND NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER OF AT LEAST 4" AND NOT GREATER THAN 6-1/4" WITH A MAXIMUM CROSS SECTION OF 2-1/4"

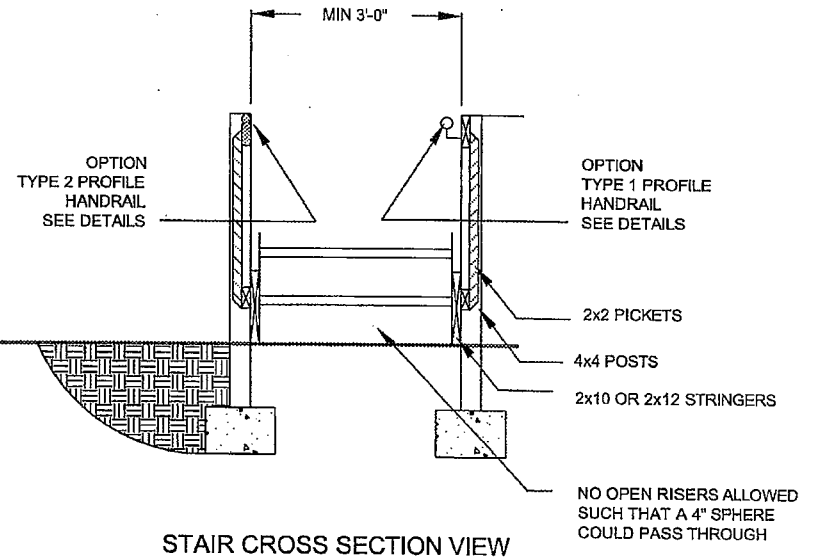
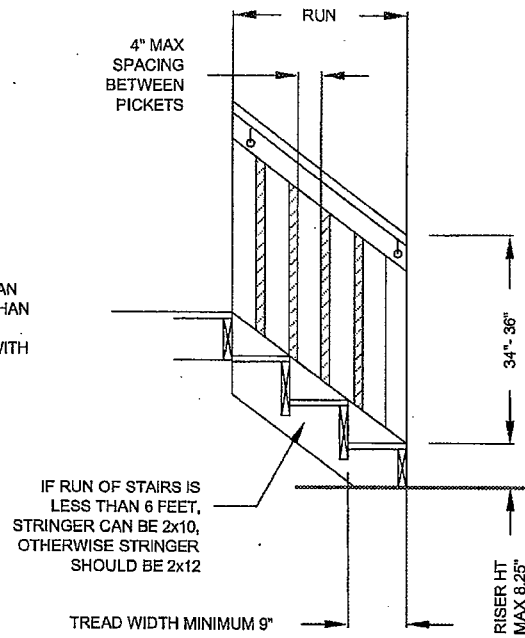


RECTANGULAR

TYPE 2 HANDRAIL PROFILE

HANDRAILS WITH A PERIMETER GREATER THAN 6-1/4" SHALL PROVIDE A GRASPABLE FINGER RECESS ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL:

1. BEGIN WITHIN A DISTANCE OF 3/4" MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND
2. ACHIEVE A DEPTH OF AT LEAST 5/16" WITHIN 7/8" BELOW THE WIDEST PORTION OF THE PROFILE. THE REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8" TO A LEVEL THAT IS NOT LESS THAN 1-3/4" BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1-1/4" TO A MAXIMUM OF 2-3/4" EDGES SHALL HAVE A MINIMUM RADIUS OF .01"



STAIR NOTES:

1. HANDRAILS ARE REQUIRED IF STAIRWAY HAS TWO OR MORE RISERS
2. HANDRAILS TO BE 34-38" ABOVE NOSING OF STAIR ON AT LEAST ONE SIDE
3. NO OPENINGS GREATER THAN 4" ARE ALLOWED IN RISERS
4. REFER TO SHEET 2 FOR TYPICAL DECK DETAILS
5. HANDRAIL PROFILE SHALL BE EITHER:
TYPE 1 ROUND OR OVAL WITH BOTTOM SUPPORTING BRACKETS OR
TYPE 2 CUSTOM DESIGNED WITH BUILT IN HAND HOLDS AS PRESCRIBED BY VIRGINIA CODE

******WARNING - DO NOT USE 2x (INSTALLED EITHER VERTICALLY OR HORIZONTALLY) AS HANDRAILS**

TYPICAL RAMP DETAILS

